

MULTIPOINT THERMOCOUPLE WITH PROTECTING TUBE

MODEL
S2.06



PRODUCT DESCRIPTION

Multi-point thermocouple are used to measure more than one temperature point through a single access point. The sensor has multiple temperatures input along the length of the sensor to calculate an accurate temperature profile. These sensors are mostly used in chemical and petroleum industries for temperature profiling of reactors, crackers, and liquefied gas in tanks. The design and dimensions of the multi-point thermocouples differ depending on the shape and size of the container, position of the sensors, service required, pressure, temperature



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KEY FEATURES

- Mineral insulated (MI) Cable
- Available in Various Connections & Sheath Diameter.
- Enclosures Junction Box
- Reference Standard: IEC-584.2/ANSI MC-96.1

SPECIFICATIONS

No. of elements	:	Simplex
Elements Type	:	K Type Chromel-Alumel
Range	:	-70...500°C
Accuracy	:	Class 1 as per IEC-584.2/ANSI MC-96.1
Hot Junction	:	Ungrounded Junction
No of Points	:	Three
Sheath Diameter	:	3 mm
Sheath material	:	SS 316
Junction Box Type	:	Weatherproof, IP68 in Die Cast Aluminum
No. of Conduit Entry	:	One
Conduit Entry Size	:	3/4" ET (F)
Junction Box Extension type	:	Junction Box with nipple union of CS
Protecting Tube Material	:	SS 316
Protecting Tube Size	:	½" Sch. 40
Flange Type/Size	:	1 ½" 150#RF
Flange Material	:	SS 316
Immersion Length	:	1500 mm
Extension Length	:	150 mm

APPLICATION

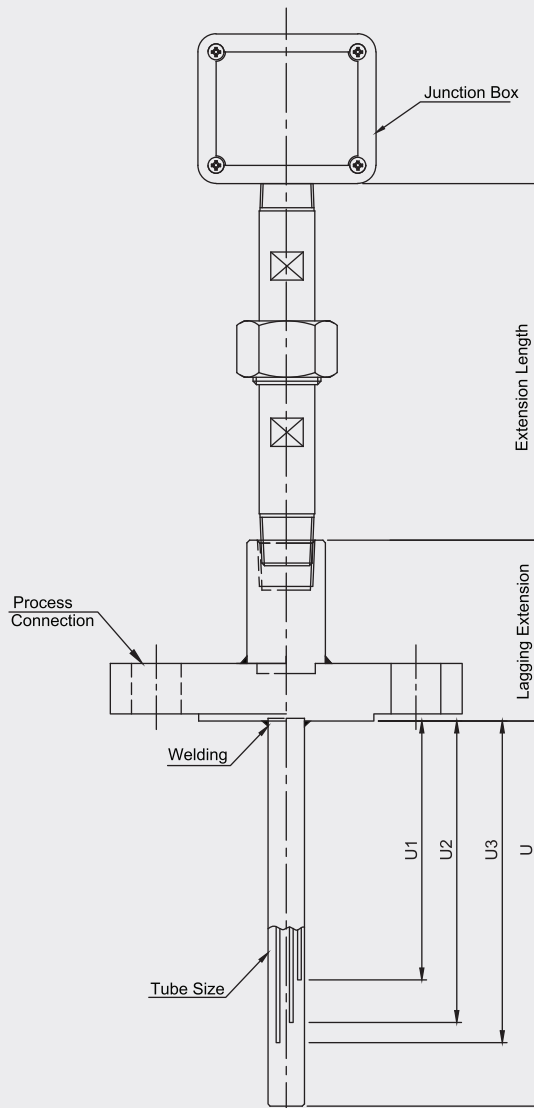
- Oil & Gas applications
- Chemical & Petrochemical
- Cement Plants
- Fertilizer
- Steel Plants
- Power Plants & Nuclear Plants
- Furnace
- Boiler & Reactor

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DIMENSIONAL DRAWINGS

Multi Point



Important Notes: Above drawings are not to scale. All dimension are in mm

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MODEL CODING & ORDERING INFORMATION

DESCRIPTION	CODE	S2.06	GT	S	K	2	1	UJ	B03	S6	JB1	1	E2	U
Model Multipoint Thermocouple with Protecting tube	S2.06	S2.06												
Version Guide Tube	GT		GT											
Spring Loaded	SL													
No of Element Simplex	S			S										
Duplex	D													
Element Type K-Chromel-Alumel	K				K									
J-Iron-Constantan	J													
T-Copper-Constantan	T													
E-Chromel-Constantan	E													
N-Nicrosil-Nisil	N													
No of Points 1 Thermocouples	1													
2 Thermocouples	2					2								
4 Thermocouples	4													
5 Thermocouples	5													
As per Customer specific	XX													
Accuracy Class 1	1						1							
Class 2	2													
Hot Junction Type Grounded Junction	GJ													
Un-Grounded Junction	UJ							UJ						
Sheath Diameter Ø3.0 mm	B03								B03					
Ø5.0 mm	B05													
Ø6.0 mm	B06													
Ø8.0 mm	B08													
Sheath Material SS 316	S6									S6				
SS 316L	SL													
Inconel 600	I6													
Junction Box Type Weather proof IP-68 Junction box in Die cast aluminum	JB1										JB1			
Flameproof IP-68 Gr. IIA, IIB Junction box in Die cast aluminum	JB2													
Explosion Proof IP-68 Gr. IIC Junction box in Die cast aluminum	JB3													
No. of Conduit Entry One	1											1		
Two	2													
Three	3													
Conduit Entry Size 1/2" NPT (F)	E2												E2	
3/4" ET (F)	E3													
3/4" NPT (F)	E5													
Head Extension type Head with nipple union extension	U													U
Head with nipple union nipple extension	N													

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MODEL S2.06

MODEL CODING & ORDERING INFORMATION

DESCRIPTION	CODE	N4	F	S6	XX.XX.XX	XXX	XXX	XXX	XXX	A10	X16
Protecting Tube											
Size	OD in mm	Wall Thk. In mm									
½" Sch.40	21.3	2.77	N4	N4							
½" Sch.80	21.3	3.74	N8								
1" Sch.40	33.4	3.4	R4								
1" Sch.80	33.4	4.5	R8								
1.5" Sch.40	48.3	3.7	T4								
1.5" Sch.80	48.3	5.1	T8								
2" Sch.40	60.3	3.9	U4								
2" Sch.80	60.3	5.5	U8								
Junction Box Extension Type											
With Flexible hose	F		F								
Protecting tube	T										
Protecting Tube Material											
SS 316	S6			S6							
As per customer specific	XX										
Multipoint Insertion Length											
L1, L2, L3, ...Specify in mm	XXX.XXX.XXX				XXX.XXX.XXX						
Insertion Length											
L-Specify in mm	XXX					XXX					
Extension Length											
Specify in mm	XXX						XXX				
Junction Box Extension Length											
Specify in mm	XXX							XXX			
Flange Type/Size											
As per table-1	XXX								XXX		
Flange Material											
ASTM A105	A10									A10	
A182 F316	F31										
As per customer specific	XXX										
Other Options											
Plug for conduit entry in carbon steel	XPC										
Plug for conduit entry in SS 304	XPS										
S.C Cable gland in Nickel plated Brass-WP	G01										
D.C Cable gland in Nickel plated Brass-WP	G02										
D.C Cable gland in SS 316-WP	G03										
D.C Cable gland in SS 304-WP	G04										
D.C Cable gland in Nickel plated Brass-FLP	G05										
D.C Cable gland in SS 304-FLP	G06										
D.C Cable gland in SS 316-FLP	G07										
Plug in conduit entry in AL	XCA										
D.C Cable gland in Nickel plated Brass-Ex Proof	G08										
D.C Cable gland in SS 316-Ex Proof	G09										
D.C Cable gland in SS 304-Ex Proof	G10										
Head with Nipple union extension 100mm in CS	X15										
Calibration Certificate	X16										X16
Plug for conduit entry in SS 316	X23										
Head with Nipple union extension 100mm in SS 304	X41										
Head with Nipple union extension 100mm in SS 316	X42										
Head with Nipple union nipple extension 100mm in CS	X43										
Head with Nipple union nipple extension 100mm in SS 304	X44										
Head with Nipple union nipple extension 100mm in SS 316	X46										

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Table -1 AS PER ANSI B 16.5

NOMINAL SIZE	RATING/ CLASS	CODE	NOMINAL SIZE	RATING/ CLASS	CODE	NOMINAL SIZE	RATING/ CLASS	CODE	NOMINAL SIZE	RATING/ CLASS	CODE
1/2"	150	B09	1"	150	B21	1 1/2"	150	B33	2 1/2"	150	B45
	300	B10		300	B22		300	B34		300	B46
	600	B11		600	B23		600	B35		600	B47
	900	B12		900	B24		900	B36		900	B48
	1500	B13		1500	B25		1500	B37		1500	B49
	2500	B14		2500	B26		2500	B38		2500	B50
3/4"	150	B15	1 1/4"	150	B27	2"	150	B39	3"	150	B51
	300	B16		300	B28		300	B40		300	B52
	600	B17		600	B29		600	B41		600	B53
	900	B18		900	B30		900	B42		900	B54
	1500	B19		1500	B31		1500	B43		1500	B55
	2500	B20		2500	B32		2500	B44		2500	B56

SAMPLE ORDERING CODE:

S2.06-GT.S.K.2.1.UJ.B03.S6.JB1.1.E2.U.N4.F.S6.XX.XX.XX.XXX.XXX.XXX.XXX.A10.X16

Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and material specified may be replaced by others without prior notice.